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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,917	11/14/2003	Weixin Gu	086142-0581	7666

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EXAMINER

GOODEN JR, BARRY J

ART UNIT	PAPER NUMBER
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3616

DATE MAILED: 04/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/706,917	GU ET AL.	
	Examiner	Art Unit	
	Barry J. Gooden Jr.	3616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Restriction requirement 10 January 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) 10-12, 16, 21 and 22 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9, 13-15 and 17-20 is/are rejected.
- 7) ☒ Claim(s) 20 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☒ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>11/14/03</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This office action is in response to the election filed February 9, 2006.

Specification

1. The disclosure is objected to because of the following informalities:

The use of the term "cell" is objected to see Item 3 of office action.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 8, 13, 19, and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In regards to claims 8, 13, 19, and 20, Applicant's use of the term "cell" is unclear. A cell is defined as an "enclosed cavity". Applicant shows in Figures 2-4 what appears to be a "cell"; however as seen in Figure 1, what Applicant refers to, as a cell, is a section view of a passage.

In regards to claim 20, Applicant appears to switch terminology and thus makes it unclear to the examiner which chamber is the primary chamber. Examiner suggests utilizing the terminology in the previous claims for identifying the chambers.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-7, 9, 14, 15, 17, and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Staub et al., US Patent 6,059,312.

In regards to claims 1-7, 9, 14, 15, 17, and 18, Staub et al. shows all of the claimed elements including a head-protecting airbag comprising:

a primary chamber (20); a secondary chamber (18);

wherein the primary chamber (20) is separated from the secondary chamber (18) by an air-permeable panel (6);

wherein the head-protecting airbag is configured to be inflatable over an in-vehicle lateral surface;

wherein the primary chamber (20) is configured to be inflated by gas discharged from a gas generator (12);

wherein the secondary chamber (18) is configured to be inflated by gas transferred from the primary chamber (20);

wherein the secondary chamber (20) is configured to be inflated by gas passing through the air-permeable panel (6);

further comprising:

a first panel (4); a second panel (2);

wherein the air-permeable panel (6) is disposed between the first panel (4) and the second panel (2);

wherein the primary chamber (20) is defined by the first panel (4) and the air-permeable panel (6);

wherein the secondary chamber (18) is defined by the second panel (2) and the air-permeable panel (6);

further comprising a first panel (4) adjacent to a vehicle body and a second panel (2) adjacent to a vehicle cabin;

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wherein the air permeable panel (6) is connected to the first panel (4) and the second panel (2) to thereby form the primary chamber (20) and the secondary chamber (18) (See Figure 1).

In regards to claim 17, Staub et al. shows all of the claimed elements including a head-protecting airbag device comprising:

an airbag, wherein the airbag includes a primary chamber (20), a secondary chamber (18), and an air-permeable panel (6) separating the primary chamber (20) and the secondary chamber (18); and, a gas generating apparatus (12) configured to generate gas to inflate the airbag.

In regards to claim 18, Staub et al. shows all of the claimed elements including an airbag for a vehicle comprising:

a cabin side panel (2);

a body side panel (4); and

an air permeable panel (6) positioned between the cabin side panel (2) and the body side panel (4) to thereby form a primary chamber (20) bounded by the body side panel (4) and the air permeable panel (6) and a secondary chamber (18) bounded by the cabin side panel (2) and the air permeable panel (6).

6. Claims 1-5 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Lachat et al., US Patent 5,791,685.

In regards to claims 1-5 and 17, Lachat et al. shows all of the claimed elements including a head-protecting airbag (22) comprising:

a primary chamber (54); a secondary chamber (52);

wherein the primary chamber (54) is separated from the secondary chamber (52) by an air-permeable panel (56a);

wherein the head-protecting airbag (22) is configured to be inflatable over an in-vehicle lateral surface (Abstract);

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wherein the primary chamber (54) is configured to be inflated by gas discharged from a gas generator (100);

wherein the secondary chamber (52) is configured to be inflated by gas transferred from the primary chamber (54);

wherein the secondary chamber (52) is configured to be inflated by gas passing through the air-permeable panel (56a);

In regards to claim 17, Lachat et al. shows all of the claimed elements including a head-protecting airbag (22) device comprising:

an airbag (22), wherein the airbag (22) includes a primary chamber (54), a secondary chamber (52), and an air-permeable panel (56a) separating the primary chamber (54) and the secondary chamber (52); and,

a gas generating apparatus (10) configured to generate gas to inflate the airbag (22).

7. Claims 1-6, 14, 15, and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Wipasuramonton et al., US Patent 6,279,944 B1.

In regards to claims 1-6, 14, 15, and 17, Wipasuramonton et al. shows all of the claimed elements including a head-protecting airbag comprising:

a primary chamber (50a); a secondary chamber (50b);

wherein the primary chamber (50a) is separated from the secondary chamber (50b) by an air-permeable panel (120);

wherein the head-protecting airbag is configured to be inflatable over an in-vehicle lateral surface (See Figure 11);

wherein the primary chamber (50a) is configured to be inflated by gas discharged from a gas generator (26);

wherein the secondary chamber (50b) is configured to be inflated by gas transferred from the primary chamber (50a);

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wherein the secondary chamber (50b) is configured to be inflated by gas passing through the air-permeable panel (120);

further comprising:

a first panel (52a); a second panel (52b);

wherein the air-permeable panel (120) is disposed between the first panel (52a) and the second panel (52b);

further comprising a first panel (52a) adjacent to a vehicle body and a second panel (52b) adjacent to a vehicle cabin;

wherein the air permeable panel (120) is connected to the first panel (52a) and the second panel (52b) to thereby form the primary chamber (50a) and the secondary chamber (50b) (See Figure 4).

In regards to claim 17, Wipasuramonton et al. shows all of the claimed elements including a head-protecting airbag device comprising:

an airbag, wherein the airbag includes a primary chamber (50a), a secondary chamber (50b), and an air-permeable panel (120) separating the primary chamber (50a) and the secondary chamber (50b); and,

a gas generating apparatus (26) configured to generate gas to inflate the airbag.

Examiner notes that Wipasuramonton et al. teaches all of the claimed elements as detailed above and discloses a highly air-permeable fabric (Figure 10; Column 5, lines 29-38).

8. Claims 1-9, 13-15, and 17-19, as best understood, are rejected under 35 U.S.C. 102(e) as being anticipated by Abe et al., US Publication 2004/0145162 A1.

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any

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invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

In regards to claims 1-9 and 13-15, as best understood, Abe et al. shows all of the claimed elements including a head-protecting airbag (10B) comprising:

a primary chamber (4,6); a secondary chamber (5);

wherein the primary chamber (4,6) is separated from the secondary chamber (5) by an air-permeable panel (54);

wherein the head-protecting airbag (10B) is configured to be inflatable over an in-vehicle lateral surface;

wherein the primary chamber (4,6) is configured to be inflated by gas discharged from a gas generator (60);

wherein the secondary chamber (5) is configured to be inflated by gas transferred from the primary chamber (4,6);

wherein the secondary chamber (5) is configured to be inflated by gas passing through the air-permeable panel (54);

further comprising:

a first panel (14); a second panel (12);

wherein the air-permeable panel (54) is disposed between the first panel (14) and the second panel (12);

wherein the primary chamber (4,6) is defined by the first panel (14) and the air-permeable panel (54);

wherein the primary chamber (4,6) includes a pair of cells (4 and 6) formed by a connection between the air permeable panel (54) and the first panel (14) (See Figure 5);

wherein the secondary chamber (5) is defined by the second panel (12) and the air-permeable panel (54);

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wherein the primary chamber (4,6) is defined by the first panel (14) and the air permeable panel (54) and the secondary chamber (5) is defined by the second panel (12) and the air permeable panel (54);

wherein the air permeable panel (54) includes a periphery portion and an interior portion; and

wherein a portion of the interior portion of the air-permeable panel (54) is connected to the first panel (14) to thereby form a pair of cells (4 and 6);

further comprising a first panel (14) adjacent to a vehicle body and a second panel (12) adjacent to a vehicle cabin;

wherein the air permeable panel (54) is connected to the first panel (14) and the second panel (12) to thereby form the primary chamber (4,6) and the secondary chamber (5) (See Figure 5).

In regards to claim 17, Abe et al. shows all of the claimed elements including a head-protecting airbag (10B) device comprising:

an airbag (10B), wherein the airbag (10B) includes a primary chamber (4,6), a secondary chamber (5), and an air-permeable panel (54) separating the primary chamber (4,6) and the secondary chamber (5); and,

a gas generating apparatus (60) configured to generate gas to inflate the airbag (10B).

In regards to claims 18 and 19, as best understood, Abe et al. shows all of the claimed elements including an airbag (10B) for a vehicle comprising:

a cabin side panel (12);

a body side panel (14); and

an air permeable panel (54) positioned between the cabin side panel (12) and the body side panel (14) to thereby form a primary chamber (4,6) bounded by the body side panel (14) and the air permeable panel (54) and a secondary chamber (5) bounded by the cabin side panel (12) and the air permeable panel (54);

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wherein the primary chamber (4,6) includes a pair of cells (4 and 6) separated by a connection between the air permeable panel (54) and the body side panel (14).

Allowable Subject Matter

9. Claim 20 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barry J. Gooden Jr. whose telephone number is (571) 272-5135. The examiner can normally be reached on Monday-Friday 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul N. Dickson can be reached on (571) 272-6669. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Barry J Gooden Jr.
Examiner
Art Unit 3616

BJG


ERIC CULBRETH
PRIMARY EXAMINER